WHAT IS CLAIMED IS:

1. A coating composition comprising:

(a) at least one component selected from the group consisting of an organosilane represented by the following general formula (1), a hydrolyzate of said organosilane and a condensates of said organosilane;

(b) an organosiloxane oligomer having an SiO bond and a weight average molecular weight of 300 to 100,000;

(c) a photocatalyst; and

(d-1) an organic solvent having a surface tension at 20°C of 260 μN/cm or less:

$$(R^1)_nSi(OR^2)_{4-n} \qquad (1)$$

wherein, R^1, which may be the same or different when two or more R^1 groups are present, represents a monovalent organic group having 1 to 10 carbon atoms; R^2, which may be the same or different when two or more R^2 groups are present, represents an alkyl group having 1 to 5 carbon atoms or an acyl group having 1 to 6 carbon atoms; and n is an integer ranging from 0 to 2.

2. The coating composition according to claim 1, which further comprises (e) a polymer containing a silyl group having a silicon atom bound to a hydrolytic group and/or a hydroxyl group.

3. The coating composition according to claim 1 or 2, wherein said component (a) is (a-1) at least one component selected from the group consisting of an organosilane

represented by general formula (1) (wherein n is 1 or 2, and at least one of R^1 groups is an epoxy group-containing substituted derivative), a hydrolyzate of said organosilane and a condensate of said organosilane; and

(a-2) at least one component selected from the group consisting of an organosilane represented by general formula (1) (wherein no epoxy group is contained in R^1), a hydrolyzate of said organosilane and a condensate of said organosilane.

4. The coating composition according to any one of claims 1 to 3, wherein said component (b) has a group represented by general formula $-(RO)_p-(R'O)_q-R''$ (wherein R and R', which may be the same or different, represent alkyl groups each having 1 to 5 carbon atoms, R'' represents a hydrogen atom or an alkyl group having 1 to 5 carbon atoms, and p+q is from 2 to 30), and a silyl group having a silicon atom bound to a hydrolytic group and/or a hydroxyl group.

5. A method for producing a coating composition which comprises hydrolyzing and/or condensing at least one selected from the group consisting of:

(a) an organosilane represented by the following general formula (1);

(b) an organosiloxane oligomer having an SiO bond and a weight average molecular weight of 300 to 100,000; and

(e) a polymer containing a silyl group having a silicon atom bound to a hydrolytic group and/or a hydroxyl group, in

the presence of (c') an aqueous dispersion of a photocatalyst having a pH of 3 to 9 and (d') an organic solvent in which the content of an organic solvent having a surface tension at 20°C of more than 260 μN/cm is 20% by weight or less based on the whole organic solvent:

$$(R^1)_nSi(OR^2)_{4-n} \quad (1)$$

wherein, R^1, which may be the same or different when two or more R^1 groups are present, represents a monovalent organic group having 1 to 10 carbon atoms; R^2, which may be the same or different when two or more R^2 groups are present, represents an alkyl group having 1 to 5 carbon atoms or an acyl group having 1 to 6 carbon atoms; and n is an integer ranging from 0 to 2.

SUB B2

6. The method according to claim 5, wherein said component (a) is (a-1) at least one component selected from the group consisting of an organosilane represented by general formula (1) (wherein n is 1 or 2, and at least one of R^1 groups is an epoxy group-containing substituted derivative), a hydrolyzate of said organosilane and a condensate of said organosilane; or

(a-2) at least one component selected from the group consisting of an organosilane represented by general formula (1) (wherein no epoxy group is contained in R^1), a hydrolyzate of said organosilane and a condensate of said organosilane.

7. A cured product obtained by coating and drying the coating composition according to any one of claims 1 to 4, or

the composition obtained by the method according to claim 5 or 6.

8. A cured product having a dry coating layer comprising any one of the following undercoating compositions (i) to (iv), and having thereon a dry coating layer comprising the coating composition according to any one of claims 1 to 4, or the coating composition obtained by the method according to claim 5 or 6:

(i) An undercoating composition containing said components (a) and (e);

(ii) An undercoating composition containing said components (a) and (e), and (f) colloidal silica and/or colloidal alumina;

(iii) An undercoating composition containing said components (a) and (e), and (g) colloidal cerium oxide and/or colloidal zinc oxide; and

(iv) An undercoating composition containing said components (a), (e), (f) and (g).

9. A coating film having a dry coating layer comprising any one of the undercoating compositions (i) to (iv) specified in claim 8, and having thereon a dry coating layer comprising the coating composition according to any one of claims 1 to 4, or the coating composition obtained by the method according to claim 5 or 6.